



SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Charlet Phone N Mail Box and Bldg/Room Location 8 E12	lumber 30 5 - 3586 : 8 E (8 Resu	Examiner #: 79040 Date 1- Serial Number: 09/544/66 Ults Format Preferred (circle): PAPER I	DISK E-MAIL
If more than one search is submitted, please prioritize searches in order of need.			
Please provide a detailed statement of the Include the elected species or structures, k	search topic, and describe a eywords, synonyms, acron that may have a special me	as specifically as possible the subject matter to yms, and registry numbers, and combine with raning. Give examples or relevant citations, au	be searched. the concept or
Title of Invention: Enhancement of popular collular cotalice			
Inventors (please provide full names): Zievei Huang, Jialun Wang, Zhinia Zhang, Simei			
Shan Xhirian Lu			
Earliest Priority Filing Date:	17/1999		
For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.			
General Formula: (R-X) = peptiche			
Point of Contact Susan Hanley Technical Info. Specialist Technical Info. Specialist			
Electe	d Formula	: CH2 (CH2) & CO-NH	-peptide
Search of	(peptides): (CH3 (CH2) 8 CO - NH See 1D NO : 1. 21 16 20 11 : 21 16 CO 2014	All 61 16 16 28 7, 30, 32, 5\$
Point of Contact Susan Hanley Fechnical Info. Specialist Technical Info. 305-4053		(no SC) 57	lo dedut
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PTO-1590 (8-01)

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L21 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2003 ACS 2002:454125 HCAPLUS ACCESSION NUMBER:

TITLE:

SOURCE:

Structure-Activity Relationship of Reversibly

Lipidized Peptides: Studies of Fatty

Acid-Desmopressin Conjugates

of INV. CORPORATE SOURCE:

Wang, Jeff; Wu, Daphne; Shen, Wei-Chiang

School of Pharmacy, Department of Pharmaceutical Sciences, University of Southern California, Los

Angeles, CA, 90033, USA

Pharmaceutical Research (2002), 19(5), 609-614

CODEN: PHREEB; ISSN: 0724-8741 Kluwer Academic/Plenum Publishers

PUBLISHER: DOCUMENT TYPE: Journal

English LANGUAGE:

Purpose. To synthesize a series of reversible fatty acid-desmopressin (DDAVP) conjugates and to study their structure-activity relationship as anti-diuretic drugs. Methods. Seven fatty acid conjugates of DDAVP were prepd. using various reversible lipidization reagents as described in our previous reports. All products were purified by acid pptn. and/or size-exclusion chromatog. Reversed-phase HPLC was used to evaluate their purity and lipophilicity. The anti-diuretic efficacy of these fatty acid conjugates was assessed in vasopressin-deficient Brattleboro rats. Four selected conjugates, i.e., DPA, DPH, DPD and DPP (acetic, hexanoic, decanoic, and palmitic acid conjugate, resp.), along with DDAVP itself were used in Caco-2 cell uptake studies and their degrdn. and the regeneration of active DDAVP were investigated using an in vitro liver slice metabolic system coupled with a HPLC assay. Results. All fatty acid-DDAVP conjugates were more lipophilic than DDAVP as examd. by HPLC analyses. When cysteine was used as the linker, the capacity index (k', a measure of lipophilicity) of the conjugates was linearly correlated with the no. of carbons in the fatty acid chain. The anti-diuretic activity of the conjugates was correlated with the length of the fatty acid chain, with C10 as the minimal requirement for possessing the enhanced anti-diuretic activity. Among the seven fatty acid conjugates, palmitic acid conjugate was the most potent DDAVP deriv. Removal of carboxyl group from the cysteine linker completely abolished the enhancement of the activity. The extent of cellular uptake also pos. correlated with the lipophilicity of the conjugates. The metab. of DDAVP, DPH, DPD, and DPP by liver slices all followed first order kinetics with half-life of 0.30, 0.01, 0.06 and 3.44 h, resp. The degrdn. rates of DPH and DPD in the liver slice incubation were much faster than that of DDAVP and therefore an accumulation of regenerated DDAVP in the media was obsd. In contrast, DPP was metabolized much slower than DDAVP and, consequently, no significant accumulation of regenerated DDAVP could be detected. Conclusion. Conjugation of DDAVP with fatty acids increased the lipophilicity and the anti-diuretic activity of this peptide drug. The anti-diuretic activity of lipidized DDAVP was dependent on the chain length of the fatty acid, as well as the structure of the linker in the conjugate. The preservation and enhancement of the in vivo anti-diuretic activity of the conjugates is most likely due to a combination of an improved pharmacokinetic behavior and a concurrent regeneration of active DDAVP in tissues.

63 (Pharmaceuticals) 28

REFERENCE COUNT:

THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2000:900673 HCAPLUS

YAEN 09/544,664 DOCUMENT NUMBER: 134:67151 Secreted and transmembrane proteins of human TITLE: identified by gene discovery and cloning of cDNAs encoding them Ashkenazi, Avi J.; Baker, Kevin P.; Botstein, David INVENTOR(S): A.; Desnoyers, Luc; Eaton, Dan L.; Ferrara, Napoleone; Fong, Sherman; Gao, Wei-qiang; Gerber, Hanspeter; Gerritsen, Mary E.; Goddard, Audrey; Godowski, Paul J.; Gurney, Austin L.; Kljavin, Ivar J.; Mather, Jennie P.; Napier, Mary A.; Pan, James; Paoni, Nicholas F.; Roy, Margaret Ann; Stewart, Timothy A.; Tumas, Daniel; Watanabe, Colin K.; Williams, P. Mickey; Wood, William I.; Zhang, Zemin PATENT ASSIGNEE(S): Genentech, Inc., USA; et al. SOURCE: PCT Int. Appl., 244 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 106 PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE ----_____ _____ A2 A3 WO 2000077037 20001221 WO 2000-US14042 20000522 WO 2000077037 20020228 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG A2 WO 2000012708 20000309 WO 1999-US20111 19990901 WO 2000012708 A3 20011004 AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG A2 20000323 WO 2000015666 WO 1999-US20594 19990908 WO 2000015666 А3 20001123 AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY,

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The present invention is directed to novel polypeptides and to nucleic acid mols. encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention. Biol. activities are assigned to a no. of the gene products.

IT 127464-60-2, Vascular endothelial growth factor
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(proteins inhibiting; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

RN 127464-60-2 HCAPLUS

- CN Vascular endothelial growth factor (9CI) (CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- IT 50-99-7, D-Glucose, biological studies

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(transport, protein stimulating; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

RN 50-99-7 HCAPLUS

CN D-Glucose (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

- IC ICM C07K014-00
- CC 3-2 (Biochemical Genetics)

Section cross-reference(s): 6, 13

ST secreted transmembrane protein human gene discovery cDNA cloning sequence

IT Cell proliferation

(T cell, protein stimulating; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Recombination, genetic

(amplification, in tumors; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Proteins, specific or class

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence)

(apoptosis-regulating; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (c-fos, proteins inducing expression of; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Gene, animal

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(cDNA, for secreted and transmembrane proteins of human; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Cell adhesion molecules

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(cloning of cDNA for; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Intestine, neoplasm

(colon, genes amplified in; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Pancreas

(duct, protein stimulating cell proliferation in; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Blood vessel

(endothelium, proteins inhibiting proliferation of; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT cDNA sequences

(for secreted and transmembrane proteins of human; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Genetic methods

(gene discovery; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Lung, neoplasm

(genes amplified in; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Biological transport

(glucose, protein stimulating; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Heart, disease

(hypertrophy, protein stimulating; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Kidney

(mesangium, protein stimulating cell proliferation in; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Nerve

(neuron, retinal, protein stimulating survival of; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Protein sequences

(of secreted and transmembrane proteins of human; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Ear

(organ of Corti, inner hair cell, utricular, protein stimulating proliferation of; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Capillary vessel

(pericyte, protein inducing gene expression in; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Biological transport

(permeation, vascular, proteins affecting; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Erythroblast

(protein inducing Hb synthesis in; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Chondrocyte

(protein inducing differentiation or proliferation of; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Fibroblast growth factor receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (protein ligand for; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them)

IT Cytokines

 $\tilde{\text{RL}}$: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(protein stimulating release of; secreted and transmembrane proteins of

human identified by gene discovery and cloning of cDNAs encoding them)

ΙT Cell proliferation (proteins stimulating cell or tissue-specific; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them) Fatty acids, biological studies ΙT RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process) (proteins stimulating cellular uptake of; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them) IT Neoplasm (proteins suppressing proliferation of; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them) ΙT Eve (retina, protein stimulating survival of neurons in; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them) IΤ Eye (rod, protein stimulating survival of; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them) ΤТ Proteins, specific or class RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study) (secretory; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them) TΥ Proteins, specific or class RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study) (transmembrane; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them) IT Fibroblast growth factor receptors RL: BSU (Biological study, unclassified); BIOL (Biological study) (type 4, protein ligand for; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them) TΨ Blood vessel (vascular leakage, protein stimulating; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them) ΙT Pancreatic islet of Langerhans (.beta.-cell, proteins affecting differentiation of; secreted and transmembrane proteins of human identified by gene discovery and cloning of cDNAs encoding them) 182078-03-1, Chemokine PANEC-2 (human pancreas) IT 151185-21-6 185260-79-1, Protein PRO183 (human clone DNA28498) 197982-35-7 204081-38-9, Growth factor XAG-3 (human 208668-55-7 208947-13-1 210044-19-2 202220-47-1 200515-38-4 208472-38-2 precursor) 210044-20-5, Glycoprotein p56-2 (human clone 2607571) 210479-05-3 221337-72-0 220198-27-6 221337-87-7 221337-92-4 221337-99-1 221369-74-0 221649-74-7 221890-47-7 222538-58-1, Protein z219a (human precursor) 229620-14-8, Lungkine (Mus musculus lung) 260342-60-7 297277-25-9, Protein PRO4356 (human clone 243123-56-0 DNA86576-2595) 302874-51-7 307356-17-8, Protein PRO7170 (human clone DNA108722-2743) 312334-27-3, Protein PRO185 (human clone DNA28503) 312334-34-2, Protein PRO9940 (human clone DNA92282) 314326-32-4 314326-43-7 314326-45-9 314326-52-8 314326-55-1 314326-57-3, Protein PRO6004 (human clone DNA92259) 314326-59-5 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL

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     221890-46-6
                                 312334-25-1
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                   314326-60-8
     RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
     (Biological study)
        (nucleotide sequence; secreted and transmembrane proteins of human
        identified by gene discovery and cloning of cDNAs encoding them)
     127464-60-2, Vascular endothelial growth factor
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (proteins inhibiting; secreted and transmembrane proteins of human
        identified by gene discovery and cloning of cDNAs encoding them)
ΙT
     50-99-7, D-Glucose, biological studies
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (transport, protein stimulating; secreted and transmembrane proteins of
        human identified by gene discovery and cloning of cDNAs encoding them)
                                 261893-54-3
                                               261893-55-4
                   252199-57-8
                                                             261893-56-5
ΙT
     252199-55-6
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                   261893-58-7
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     261893-57-6
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     274269-86-2
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     314326-70-0, 5: PN: WO0077037 PAGE: 103 unclaimed DNA
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     PN: WO0077037 PAGE: 103 unclaimed DNA 314326-72-2, 7: PN: WO0077037
     PAGE: 103 unclaimed DNA
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     314327-01-0
     RL: PRP (Properties)
        (unclaimed nucleotide sequence; secreted and transmembrane proteins of
        human identified by gene discovery and cloning of cDNAs encoding them)
    ANSWER (3) OF 4 HCAPLUS COPYRIGHT 2003 ACS
                         2000:725483 HCAPLUS
ACCESSION NUMBER:
                         133:276332
DOCUMENT NUMBER:
                         Enhancement of peptide cellular
TITLE:
                         uptake with peptide conjugates
                         Huang, Ziwei; Wang, Jialun;
INVENTOR(S):
                         Zhang, Zhijia; Shan, Simei; Lu,
                         Zhixian
                         Thomas Jefferson University, USA
PATENT ASSIGNEE(S):
                         (PCT)Int. Appl., 74 pp.
SOURCE:
                         CODEN: PIXXD2
                         Patent
DOCUMENT TYPE:
                         English
LANGUAGE:
```

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                   KIND DATE
                                         APPLICATION NO. DATE
                    ----
                                         _____
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                    A1 20001012 WO 2000-US9352 20000406
    WO 2000059526
        W: CA, JP
        RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
            PT, SE
                     A1 20020605 EP 2000-923177 20000406
    EP 1210098
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
                                      US 1999-128202P P 19990407
            IE, FI, CY
PRIORITY APPLN. INFO.:
                                      WO 2000-US9352 W
                                                         20000406
                 MARPAT 133:276332
OTHER SOURCE(S):
   The described invention claims peptides conjugated to lipophilic
    moieties to enhance cellular uptake. The
    peptide conjugates are useful in the modulation of apoptosis.
    N-decyl-COHN-KNLWAAQRYGRELRRMSDEFEGSFKGL caused apoptosis of
    Bcl-2-transfected HL-60 cells.
    50812-37-8D, Glutathione S-transferase, fusion proteins with
    Bcl-2, peptides binding to
    RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (enhancement of peptide cellular uptake
       using peptide conjugates with lipophilic compds.)
     50812-37-8 HCAPLUS
RN
    Transferase, glutathione S- (9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    2321-07-5DP, Fluorescein, conjugates with peptide
IΤ
     RL: BPR (Biological process); BSU (Biological study, unclassified); PRP
     (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP
     (Preparation); PROC (Process)
        (enhancement of peptide cellular uptake
       using peptide conjugates with lipophilic compds.)
     2321-07-5 HCAPLUS
RN
    Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 3',6'-dihydroxy- (9CI)
CN
     (CA INDEX NAME)
     2082-76-0, Decanoic anhydride
ΙT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (enhancement of peptide cellular uptake
        using peptide conjugates with lipophilic compds.)
RN
     2082-76-0 HCAPLUS
     Decanoic acid, anhydride (9CI) (CA INDEX NAME)
CN
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Me^{-(CH_2)}8^{-C-O-C-(CH_2)}8^{-Me}
     ICM A61K038-00
CC
     1-6 (Pharmacology)
     Section cross-reference(s): 9
    peptide cellular uptake lipophilic
ST
     conjugate; apoptosis decyl peptide Bcl2 protein binding
     Phosphoproteins
TT
     RL: BPR (Biological process); BSU (Biological study, unclassified); PRP
     (Properties); BIOL (Biological study); PROC (Process)
        (Bad (Bcl-2 protein-assocd. death promoter), peptide of BH3
        domain of, Bcl-2 binding by; enhancement of peptide
        cellular uptake using peptide conjugates
        with lipophilic compds.)
TΤ
     Proteins, specific or class
     RL: BPR (Biological process); BSU (Biological study, unclassified); PRP
     (Properties); BIOL (Biological study); PROC (Process)
        (Bak, peptide of BH3 domain of, Bcl-2 binding by; enhancement
        of peptide cellular uptake using
        peptide conjugates with lipophilic compds.)
TT
     Proteins, specific or class
     RL: BPR (Biological process); BSU (Biological study, unclassified); PRP
     (Properties); BIOL (Biological study); PROC (Process)
        (Bax, peptide of BH3 domain of, Bcl-2 binding by; enhancement
        of peptide cellular uptake using
        peptide conjugates with lipophilic compds.)
     Antitumor agents
        (acute lymphocytic leukemia; enhancement of peptide
        cellular uptake using peptide conjugates
        with lipophilic compds.)
IT
     Leukemia
        (acute lymphocytic; enhancement of peptide cellular
        uptake using peptide conjugates with lipophilic
        compds.)
ΙT
     Leukemia
        (acute nonlymphocytic; enhancement of peptide
        cellular uptake using peptide conjugates
        with lipophilic compds.)
TT
     Proteins, specific or class
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); BSU (Biological study, unclassified); BIOL (Biological study);
     PROC (Process)
        (bcl-2, peptide inhibiting or binding; enhancement of
        peptide cellular uptake using
        peptide conjugates with lipophilic compds.)
IT
     Antitumor agents
        (chronic lymphocytic leukemia; enhancement of peptide
        cellular uptake using peptide conjugates
        with lipophilic compds.)
ΙT
        (chronic lymphocytic; enhancement of peptide cellular
        uptake using peptide conjugates with lipophilic
        compds.)
IT
     Intestine, neoplasm
     Intestine, neoplasm
        (colorectal, inhibitors; enhancement of peptide
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cellular uptake using peptide conjugates
        with lipophilic compds.)
TΤ
     Antitumor agents
     Intestine, neoplasm
        (colorectal; enhancement of peptide cellular
        uptake using peptide conjugates with lipophilic
        compds.)
     Peptides, biological studies
TT
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); BSU (Biological study, unclassified); THU (Therapeutic use);
     BIOL (Biological study); PROC (Process); USES (Uses)
        (conjugates, with lipophilic compds.; enhancement of peptide
        cellular uptake using peptide conjugates
        with lipophilic compds.)
ΙT
     Lymphocyte
        (disease, self-reactive, induction of apoptosis in; enhancement of
        peptide cellular uptake using
        peptide conjugates with lipophilic compds.)
     Antitumor agents
     Apoptosis
     Cell
     Drug delivery systems
     Lipophilicity
     Melanoma
     Stomach, neoplasm
        (enhancement of peptide cellular uptake
        using peptide conjugates with lipophilic compds.)
IΤ
     Peptides, biological studies
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); BSU (Biological study, unclassified); THU (Therapeutic use);
     BIOL (Biological study); PROC (Process); USES (Uses)
        (enhancement of peptide cellular uptake
        using peptide conjugates with lipophilic compds.)
ΙT
     Kidney, neoplasm
     Kidney, neoplasm
     Stomach, neoplasm
     Stomach, neoplasm
     Thyroid gland, neoplasm
     Thyroid gland, neoplasm
        (inhibitors; enhancement of peptide cellular
        uptake using peptide conjugates with lipophilic
        compds.)
ΙT
     Antitumor agents
     Antitumor agents
        (kidney; enhancement of peptide cellular
        uptake using peptide conjugates with lipophilic
        compds.)
TΤ
     Antitumor agents
        (lung non-small-cell carcinoma; enhancement of peptide
        cellular uptake using peptide conjugates
        with lipophilic compds.)
IT
    Antitumor agents
        (melanoma; enhancement of peptide cellular
        uptake using peptide conjugates with lipophilic
        compds.)
IΤ
     Prostate gland
     Prostate gland
        (neoplasm, inhibitors; enhancement of peptide
        cellular uptake using peptide conjugates
        with lipophilic compds.)
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IT
    Prostate gland
        (neoplasm; enhancement of peptide cellular
        uptake using peptide conjugates with lipophilic
        compds.)
ΙT
    Nerve, neoplasm
    Nerve, neoplasm
        (neuroblastoma, inhibitors; enhancement of peptide
        cellular uptake using peptide conjugates
        with lipophilic compds.)
ΙT
    Antitumor agents
     Nerve, neoplasm
        (neuroblastoma; enhancement of peptide cellular
        uptake using peptide conjugates with lipophilic
        compds.)
ΙΤ
     Lung, neoplasm
     Lung, neoplasm
        (non-small-cell carcinoma, inhibitors; enhancement of peptide
        cellular uptake using peptide conjugates
        with lipophilic compds.)
IΤ
    Lung, neoplasm
        (non-small-cell carcinoma; enhancement of peptide
        cellular uptake using peptide conjugates
        with lipophilic compds.)
ΙT
     Fusion proteins (chimeric proteins)
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (of GST and Bcl-2, peptides binding to; enhancement of
        peptide cellular uptake using
        peptide conjugates with lipophilic compds.)
ΙT
     Antitumor agents
        (prostate gland; enhancement of peptide cellular
        uptake using peptide conjugates with lipophilic
        compds.)
ΙT
    Antitumor agents
     Antitumor agents
        (stomach; enhancement of peptide cellular
        uptake using peptide conjugates with lipophilic
        compds.)
ΙT
     Antitumor agents
     Antitumor agents
        (thyroid; enhancement of peptide cellular
        uptake using peptide conjugates with lipophilic
        compds.)
ΙT
     Biological transport
        (uptake; enhancement of peptide cellular
        uptake using peptide conjugates with lipophilic
        compds.)
ΙT
     Infection
        (viral, apoptosis in cells with; enhancement of peptide
        cellular uptake using peptide conjugates
        with lipophilic compds.)
IT
     Amino acids, properties
     RL: PRP (Properties)
        (D-, peptide contg.; enhancement of peptide
        cellular uptake using peptide conjugates
        with lipophilic compds.)
ΙT
     300349-95-5
     RL: BPR (Biological process); BSU (Biological study, unclassified); PRP
     (Properties); BIOL (Biological study); PROC (Process)
        (as mutant of BakBH3 peptide, Bcl-2 binding by; enhancement
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of peptide cellular uptake using
        peptide conjugates with lipophilic compds.)
     300349-99-9DP, biotinylated
ΙT
     RL: BPR (Biological process); BSU (Biological study, unclassified); PRP
     (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP
     (Preparation); PROC (Process)
        (cellular uptake of; enhancement of peptide
        cellular uptake using peptide conjugates
        with lipophilic compds.)
IT
     300349-92-2DP, conjugates with lipophilic compds., analogs 300349-96-6P
     300349-97-7P
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); BSU (Biological study, unclassified); PRP (Properties); SPN
     (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);
     PREP (Preparation); PROC (Process); USES (Uses)
        (enhancement of peptide cellular uptake
        using peptide conjugates with lipophilic compds.)
IT
     300349-39-7D, conjugates with lipophilic compds., analogs
                                                                   300349-40-0D.
     conjugates with lipophilic compds., analogs
                                                     300349-41-1D, conjugates
     with lipophilic compds., analogs 300349-42-2D, conjugates with
     lipophilic compds., analogs 300349-43-3D, conjugates with lipophilic
     compds., analogs 300349-44-4D, conjugates with lipophilic compds.,
              300349-45-5D, conjugates with lipophilic compds., analogs
     300349-46-6D, conjugates with lipophilic compds., analogs 300349-47-7D,
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     lipophilic compds., analogs 300349-50-2D, conjugates with lipophilic
     compds., analogs 300349-51-3D, conjugates with lipophilic compds.,
              300349-52-4D, conjugates with lipophilic compds., analogs
     300349-53-5D, conjugates with lipophilic compds., analogs 300349-54-6D,
     conjugates with lipophilic compds., analogs 300349-55-7D, conjugates
     with lipophilic compds., analogs 300349-56-8D, conjugates with
     lipophilic compds., analogs 300349-57-9D, conjugates with lipophilic
     compds., analogs 300349-58-0D, conjugates with lipophilic compds.,
              300349-59-1D, conjugates with lipophilic compds., analogs
     300349-60-4D, conjugates with lipophilic compds., analogs 300349-61-5D,
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     with lipophilic compds., analogs 300349-63-7D, conjugates with
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     compds., analogs 300349-65-9D, conjugates with lipophilic compds.,
               300349-66-0D, conjugates with lipophilic compds., analogs
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     300349-67-1D, conjugates with lipophilic compds., analogs 300349-68-2 conjugates with lipophilic compds., analogs 300349-69-3D, conjugates with lipophilic compds., analogs 300349-70-6D, conjugates with
                                                                   300349-68-2D,
     lipophilic compds., analogs 300349-71-7D, conjugates with lipophilic compds., analogs 300349-72-8D, conjugates with lipophilic compds.,
     analogs 300349-73-9D, conjugates with lipophilic compds., analogs
     300349-74-0D, conjugates with lipophilic compds., analogs 300349-75-1D,
     conjugates with lipophilic compds., analogs 300349-76-2D, conjugates
     with lipophilic compds., analogs 300349-77-3D, conjugates with
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     compds., analogs 300349-79-5D, conjugates with lipophilic compds.,
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                                        300349-84-2D, conjugates with
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                                   300349-85-3D, conjugates with lipophilic
                        300349-86-4D, conjugates with lipophilic compds.,
     compds., analogs
               300349-87-5D, conjugates with lipophilic compds., analogs
     300349-88-6D, conjugates with lipophilic compds., analogs 300349-89-7D,
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conjugates with lipophilic compds., analogs
                                                   300349-90-0D, conjugates
     with lipophilic compds., analogs 300349-91-1D, conjugates with
     lipophilic compds., analogs 300349-93-3D, conjugates with lipophilic
     compds., analogs 300349-94-4D, conjugates with lipophilic compds.,
     analogs
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); BSU (Biological study, unclassified); PRP (Properties); THU
     (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
        (enhancement of peptide cellular uptake
        using peptide conjugates with lipophilic compds.)
IT
     50812-37-8D, Glutathione S-transferase, fusion proteins with
     Bcl-2, peptides binding to
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (enhancement of peptide cellular uptake
        using peptide conjugates with lipophilic compds.)
IT
     2321-07-5DP, Fluorescein, conjugates with peptide
     RL: BPR (Biological process); BSU (Biological study, unclassified); PRP
     (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP
     (Preparation); PROC (Process)
        (enhancement of peptide cellular uptake
        using peptide conjugates with lipophilic compds.)
IT
     300349-98-8DP, biotinylated, resin-bound
     RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
     (Preparation); RACT (Reactant or reagent)
        (enhancement of peptide cellular uptake
        using peptide conjugates with lipophilic compds.)
TΥ
     2082-76-0, Decanoic anhydride
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (enhancement of peptide cellular uptake
        using peptide conjugates with lipophilic compds.)
REFERENCE COUNT:
                          13
                                THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L21 ANSWER 4 OF 4
                    HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER:
                          1998:711036 HCAPLUS
DOCUMENT NUMBER:
                          130:100406
                          Reversible lipidization for the delivery of
TITLE:
                                                                             O Mot how.
                          peptide and protein drugs
                          Shen, Wei-Chiang; Wang, Jeff; Shen, Daisy
AUTHOR(S):
CORPORATE SOURCE:
                          Department of Pharmaceutical Sciences, University of
                          Southern California School of Pharmacy, Los Angeles,
                          CA, 90033, USA
SOURCE:
                          Alfred Benzon Symposium (1998), 43 (Peptide and Protein
                         Drug Delivery), 397-410
CODEN: ABSYB2; ISSN: 0105-3639
                         Munksgaard International Publishers Ltd.
PUBLISHER:
                          Journal; General Review
DOCUMENT TYPE:
LANGUAGE:
                          English
     A review with 16 refs. Binding of Bowman-Birk protease inhibitor (BBI)
     and Pal-BBI to serum proteins, cellular uptake and processing of BBi and Pal-BBI in cultured caco-2 cells, pharmacokinetics
     and biodistribution of Pal-BBI, recovery of biol. activity of BBI from
     Pal-BBI and the site of Pal-BBI redn. are discussed.
CC
     63-0 (Pharmaceuticals)
     review lipidization peptide protein drug delivery
ST
ΙT
     Drug delivery systems
     Lipophilicity
        (reversible lipidization for the delivery of peptide and
        protein drugs)
```

- Lipids, biological studies
 Peptides, biological studies
 Proteins, general, biological studies
 RL: BPR (Biological process); BSU (Biological study, unclassified); THU
 (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (reversible lipidization for the delivery of peptide and protein drugs)
- REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT